

ANNUAL REPORT

OF THE

Medical Officer of Health

TO THE

PORT SANITARY AUTHORITY.

1924.

PORT OF MANCHESTER.

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*ORDERED BY THE PORT SANITARY AUTHORITY TO BE PRINTED,
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Port of Manchester.

TO THE CHAIRMAN AND MEMBERS OF
THE MANCHESTER PORT SANITARY AUTHORITY.

GENTLEMEN,

I have pleasure in presenting my Annual Report for the year 1924, this constituting the nineteenth it has been my privilege to compile.

I have to tender my sincere thanks to the Officers of H.M. Customs, the Board of Trade and the Manchester Ship Canal Company for valuable co-operation and willing assistance rendered during the year.

I have the honour to be,

Yours faithfully,


W. F. DEARDEN,

Medical Officer of Health.

Medical Officer's Department,

168, Trafford Road, Salford,

23rd February, 1925.



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Manchester Port Sanitary Authority.

The membership for the year was as follows :—

Sir THOMAS ROBINSON, M.P., Stretford, U.D. <i>Chairman</i> .		
Mr. Alderman J. EVANS, Borough of Warrington and R.D. of		
Mr. Alderman W. T. Dagnall	Warrington, <i>Deputy-Chairman</i> .
Mr. Alderman C. Hornby ...	...
Mr. Alderman S. Dixon, J.P.	Manchester.
Mr. Councillor W. R. Mellor, J.P.		
Mr. Alderman E. Desquesnes	Salford.
Mr. Alderman W. H. Barrett, J.P.		
Mr. Alderman J. P. McDougall ...	...
Mr. Councillor F. A. Luckarift ...	...
Mr. Alderman R. Evans	Borough of Eccles. R.D. of Barton-upon-Irwell. U.D. of Irlam.
Mr. Councillor Geo. Pilling, J.P. ...	...
Mr. Alderman G. I. Neil, J.P.	U.D. of Lymm. U.D. of Runcorn. R.D. of Runcorn. R.D. of Bucklow. Borough of Widnes. R.D. of Chester. R.D. of Wirrall.

The officials of the Authority are as follows :—

Medical Officer of Health—W. F. Dearden, M.R.C.S., L.R.C.P., D.P.H.

Telephones—Office, 114 Trafford Park ;

Residence, 416, Trafford Park.

Clerk—A. Holmes, Solicitor, Bexley Square, Salford. Tel. 5927 Central.

Sanitary Inspectors—H. Atkinson, C.S.M.F.I. ; W. Richmond, C.S.I.

Food Inspectors—J. Almond, C.S.M.F.I. ; Geo. Whalley, C.S.M.F.I.

Medical Officer's Clerk—Geo. Hadley, C.S.I.

„ „ *Junior Clerk*—Wm. Jennings.

Offices :—168, Trafford Road, Salford.

20, Norman Road, Runcorn.

SICKNESS DURING THE YEAR 1924.

The total number of cases of Sickness reported during the year was 180.

Reported Sickness from 1898–1924 inclusive.

1898	...	...	...	...	65
1899	...	...	...	...	46
1900	...	...	...	...	71
1901	...	...	...	...	89
1902	...	...	...	...	144
1903	...	...	...	...	124
1904	...	...	...	...	159
1905	...	...	...	...	109
1906	...	...	...	...	174
1907	...	...	...	...	162
1908	...	...	...	...	138
1909	...	...	...	...	132
1910	...	...	...	...	122
1911	...	...	...	...	143
1912	...	...	...	...	188
1913	...	...	...	...	109
1914	...	...	...	...	103
1915	...	...	...	...	155
1916	...	...	...	...	151
1917	...	...	...	...	109
1918	...	...	...	...	334
1919	...	...	...	...	254
1920	...	...	...	...	217
1921	...	...	...	...	82
1922	...	...	...	...	89
1923	...	...	...	...	141
1924	...	...	...	...	180

Cases of Sickness of all kinds have been notified, as usual, by the Liverpool Port Sanitary Authority, the Manchester Ship Canal Co., H.M. Customs, Shipowners and Medical Practitioners, but the bulk of information has been obtained by the Inspectors during their visits to the vessels in port.

Infectious cases are dealt with separately in Table IV., and non-infectious sickness, injury and death in Table V.

INFECTIOUS DISEASES.

The diseases notifiable to the Authority under this heading are Smallpox, Scarlet Fever, Diphtheria, Membranous Croup, Enteric Fever (Typhoid and Paratyphoid), Pneumonia, Cholera, Plague, Puerperal Fever, Cerebro-Spinal Fever, Acute Poliomyelitis, Acute Polio-encephalitis, Encephalitis Lethargica, Typhus Fever, Relapsing Fever, Continued Fever, Trench Fever, Dysentery, Ophthalmia Neonatorum, Erysipelas, Tuberculosis, Malaria, Chicken-pox, and Whooping Cough.

CHOLERA PLAGUE AND YELLOW FEVER.

There has been no outbreak during the year under this heading, either in the Port or on Manchester-bound vessels.

SMALL-POX.

Two cases were reported. A child passenger on the s.s. "City of Cairo" was removed to hospital, at Marseilles. Disinfection was carried out at that port. The other case occurred on the s.s. "British Commerce," the patient, the mate, being removed to hospital at Abadan. The vessel was stationed there for a considerable time and the mate making a good recovery, was able to rejoin the vessel. No further sickness was reported and all were well on arrival here.

ENTERIC FEVER.

Five cases were reported, three being removed to Ladywell Sanatorium, one to hospital at Liverpool and one to hospital at Balik Papan, the latter case proving fatal. The necessary disinfection was carried out.

PULMONARY TUBERCULOSIS.

Four cases were reported, one being removed to hospital at Norfolk, Va., one dying at Gravosa, one being treated on board, and one being sent home by another vessel.

MALARIA.

Five cases were reported, three being removed to hospital at Durban, one to hospital at Batavia, and one dying at sea.

PNEUMONIA.

Nine cases were reported, one being removed to hospital in Benisaf (Algeria), one in Venice, one in Chester, one in Northwich, one in Manchester, one died whilst the vessel was at Colon, one was treated on board and the remaining two had left the vessels and returned to their homes. The patients removed to hospital at Venice and Chester both died.

CHICKEN-POX.

One case was reported and was isolated on board.

ERYSIPELAS.

One case occurred, the patient leaving the vessel at Northwich.

WHOOPIING COUGH.

Two cases occurred. Two child passengers on the s.s. "City of Poona," from Calcutta, *via* London, were affected. The berth was disinfected during the voyage and again on arrival in London.

The following Table shews the Ports having communication with Manchester that have been considered as infected during the year with either Plague, Cholera or Yellow Fever, also the total number of vessels from each Port of Departure classed as infected under the particular heading.

Name of Country and Port.	Number of Vessels from Ports of Departure Infected with		
	Plague.	Cholera.	Yellow Fever.
BRAZIL :			
Bahia	1	1	—
EGYPT :			
Alexandria	38	38	—
INDIA :			
Bombay	1	1	—
Calcutta	1	1	—
Karachi	5	5	—
CEYLON :			
Colombo	1	1	—
PALESTINE :			
Beyrout	2	2	—
ROUMANIA :			
Braila	6	6	—
Constanza	3	3	—
Galatz	4	4	—
Sulina	1	1	—
TURKEY :			
Constantinople	1	1	—
TOTALS ...	64	64	—

TABLE II.

The number of cases removed to Hospital within the Port of Manchester, was as follows :—

Removed to Hospital at Manchester and Salford	...	12
„ „ „ Ellesmere Port	... ..	1
„ „ „ Runcorn	... ..	2
„ „ „ Winnington	... ..	1
		—
TOTAL	... ..	16
		—

TABLE III.

In this Table are included those who died at sea from Sickness, together with those who lost their lives through drowning, etc. :—

Deaths at sea from Disease	... ..	6
Deaths from Drowning	... ..	2
		—
TOTAL	... ..	8
		—

TABLE IV.—PARTICULARS OF CASES OF NOTIFIABLE INFECTIOUS DISEASE ON
MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Jan. 4	s.s. "Islandmagee"	Northwich	Weston Point	Pneumonia	Removed to the Northwich Infirmary.
" 9	s.s. "Pollux"	Riga	Salford—8	Enteric Fever	The boatswain was removed to Ladywell Sanatorium. Disinfection was carried out.
" 15	s.s. "Mora"	Benisaf	Irwell Park Wharf	Pneumonia	Removed to hospital at Benisaf, Algeria.
" 15	s.s. "Davisian"	Boston	Salford—9	Bronchial Pneumonia	Returned to his home.
" 16	Canal boat "Lear"	—	Ellesmere Port	Pneumonia	Removed to Chester Infirmary and died there.
" 21	s.s. "Noreg"	Castellon	Salford—8	Enteric Fever	A seaman was removed to Ladywell Sanatorium. Disinfection was carried out.
" 23	s.s. "Newtonmoor"	Karachi	Salford—8	Malaria (three cases)	Removed to hospital at Durban, but rejoined before sailing.
Feb. 1	Canal boat "Tyne"	—	Ellesmere Port	Pulmonary Tuberculosis	Treated on board.

TABLE IV. (*continued*).—PARTICULARS OF CASES OF NOTIFIABLE INFECTIOUS DISEASE ON
MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Feb. 16	s.s. "Western Ocean"	Savannah, via Liverpool	Salford—8	Enteric Fever	The boatswain was removed to hospital at Liverpool. The necessary disinfection was carried out.
April 22	s.s. "Algerian Prince"	Alexandria	Salford—8	Enteric Fever	An apprentice was removed to Ladywell Sanatorium.
May 3	s.s. "Delilian"	Boston	Salford—9	Broncho-Pneumonia	A sailor was removed to Salford Royal Hospital.
" 24	Flat "India"	Northwich	Weston Point	Erysipelas	Left vessel, at Northwich.
" 30	s.s. "Sea Glory"	Palermo, via Liverpool	Salford—8	Tuberculosis	The boatswain died whilst the vessel was at Gravosa.
June 2	s.s. "City of Poona"	Calcutta, via London	Salford—8	Whooping Cough	Two child passengers were affected. The berth was disinfected during the passage, and again in London.
" 5	s.s. "Assyrian"	Trieste and Venice, via Birkenhead	Salford—6	Septic Pneumonia	A sailor was removed to hospital at Venice, and died there.
" 6	s.s. "City of Cairo"	Indian Ports, via London	Dry Dock	Small-pox	A child passenger was removed to hospital at Marseilles. Disinfection was carried out at that port.

TABLE IV. (*continued*).—PARTICULARS OF CASES OF NOTIFIABLE INFECTIOUS DISEASE ON
MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Aug. 22	s.s. "Snowdon"	Karachi, via Birkenhead	Salford—8	Malaria	A sailor was removed to hospital at Batavia.
" 23	Canal boat "Bessie"	—	Salford—7	Chicken-pox	Isolated on board.
" 27	s.s. "Kittiwake"	Antwerp	Salford—6	Pneumonia	Left the vessel
Sept. 17	s.s. "British Commerce"	Abadan, via Swansea	Stanlow Oil Dock	Smallpox	Whilst the vessel was at Abadan, the mate was removed to hospital, but was able to re-join the vessel.
Oct. 6	s.s. "Morex"	Balik Papan, via Portishead and Barrow	Stanlow Oil Dock	Malaria Enteric Fever	Chinese quartermaster died at sea. A fireman was removed to hospital, at Balik Papan, and died there.
" 13	s.s. "Ravensworth"	Puerto Mexico, via Belfast	Salford—6	Tuberculosis	A fireman was removed to hospital at Norfolk, Va.
" 22	s.s. "Dorset"	Australia, via Antwerp	Salford—9	Tuberculosis	Sent home by another vessel.
Dec. 8	s.s. "Pacific Shipper."	Pacific Coast Ports, via London	Salford—8	Pneumonia	The chief engineer died whilst the vessel was at Colon.
" 16	Canal boat "Grasmere"	—	Ellesmere Port	Pneumonia and Bronchitis	Treated on board.

TABLE V.—PARTICULARS OF NON-NOTIFIABLE SICKNESS, INJURY, AND DEATH
OCCURRING ON MANCHESTER-BOUND VESSELS DURING THE YEAR.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Jan. 5	Schooner "Frances and Jane"	—	Runcorn	Debility	Treated on board.
" 8	Schooner "Snowflake"	Par	Weston Point	Drowning	Fell in dock.
" 10	Canal boat "Zetland"	—	Runcorn	Bronchitis and convulsions	Died at Runcorn.
" 12	s.s. "Neva"	Gefle	Warrington Lay-Bye	Injured finger	Treated on board.
" 14	s.s. "Mia"	Annan	Ellesmere Port	Influenza and lumbago	Left vessel, at Liverpool.
" 15	s.s. "Davy"	Eastham	Widnes	Influenza	Treated on board.
" 22	s.s. "West Isleta"	Norfolk, Va.	Salford—9	Accident	Medically attended to at this port
" 22	Canal boat "Ophir"	—	Runcorn	Bronchitis	Treated on board.
" 25	Canal boat "Muta"	—	Weston Point	Rheumatism	Treated on board.
" 30	Schooner "Alert"	Fowey	Runcorn	Rheumatism	Treated on board.
" 31	Schooner "Amy"	Fowey	Weston Point	Sprained ankle	Left vessel, at Fowey.
Feb. 1	s.s. "Banffshire"	Australia	Partington	Severe burns (two cases)	Two Lascar firemen. Medically attended to in Manchester.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Feb. 2	s.s. "Telesfora de Larrinaga"	Galveston	Salford—9	Severe cold	Treated on board.
"	Motor Flat "Isabel"	Liverpool	Runcorn	Severe cold	Treated on board.
"	s.s. "Nicolas"	S. Valery	Weston Point	Influenza cold	Treated on board.
"	s.s. "Algerian Prince"	Alexandria	Salford—8	Severe chill	The mate was removed to hospital, at Malta.
"	s.s. "Cripple Creek"	Beaumont, via Liverpool	Salford—9	Internal complaint	Removed to hospital, at Liverpool.
"	s.s. "Udny Castle"	Antwerp	Runcorn	Accident	Removed to hospital, at Antwerp.
"	s.s. "Hatchmere"	Newry	Ellesmere Port	Influenza cold	Left the vessel.
"	Canal boat "Swan"	—	Weston Point	Influenza cold	Treated on board.
"	Canal boat "Sirdar"	—	Weston Point	Influenza	Treated on board
"	s.s. "San Manuel"	Tampico	Barton South Oil Wharf	Accident	Treated on board.
"	s.s. "Somerset"	Cardiff	Salford—9	Venereal disease	Left the vessel.
"	s.s. "Westerham"	Treport	Weston Point	Pleurisy	Treated on board.

TABLE V. (*continued*).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Mar. 4	s.s. "Mongolian Prince"	Pacific Coast Ports, via Glasgow	Salford—9	Influenza	Left the vessel.
" 6	Canal boat "Euston"	—	Weston Point	Severe cold	Treated on board.
" 7	s.s. "West Durfee"	New Orleans, via Liverpool	Salford—8	Lumbago Hernia	Left the vessel. Treated on board.
" 8	s.s. "Norwegian"	New York, via Galveston and Liverpool	Salford—9	Accident (injured foot)	Removed to hospital, at Galveston.
" 14	s.s. "Appalachee"	Galveston, via Key West and Avonmouth	Davyhulme Oil Wharf	Dislocated hip Contusion Injured thumb	Removed to hospital, at Key West. Removed to hospital, at Key West. Treated on board.
" 17	Canal boat "Gladys"	—	Ellesmere Port	Broken thumb	Treated on board.
" 17	s.s. "Elbe"	Hamburg, via Liverpool	Salford—7	Itch	Removed to hospital, at Liverpool.
" 17	s.s. "Kittiwake"	Antwerp	Salford—6	Jaundice	Treated on board.
" 18	s.s. "Scipio"	Dantzic	Salford—9	Rheumatism	Treated on board.
" 19	Canal boat "M.C.C. 2"	—	Ellesmere Port	Bruised leg	Treated on board.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Mar. 19	s.s. "Finland "	Hamburg	Salford—7	Gastritis	Treated on board.
"	s.s. "Scottish Prince "	Jaffa	Salford—9	Appendicitis	Removed to Salford Royal Hospital.
"	s.s. "Reine Elizabeth "	Seville	Irwell Park Wharf	Burned thumb	Treated on board.
"	s.s. "Elswick Grange "	Nicolaieff, via Alexandria, Gibraltar and Constantinople	Sun Mills	Broken leg	Removed to hospital, at Alexandria.
"	Schooner "Mary Sinclair "	Jersey	Weston Point	Broken ankle	Left the vessel.
"	s.s. "Pacific Shipper "	Tyne	Salford—8	Dermatitis	Treated on board.
"	Canal boat "Stella "	—	Runcorn	Pleurisy	Treated on board.
"	Canal boat "Portia "	—	Ellesmere Port	Severe cold	Treated on board.
"	s.s. "Highland Prince "	Jaffa	Salford—9	Gastritis	Removed to hospital, at Jaffa.
Apl. 1	s.s. "Promus "	River Plate	Salford—9	Injured foot	Removed to hospital, at this port.
"	Canal boat "Foxland "	—	Weston Point	Influenza cold	Treated on board.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Apl. 4	s.s. "San Silvestre"	Tampico	Barton	Venereal disease	Removed to hospital, at Tampico.
" 4	Canal boat "Monmouth"	—	Ellesmere Port	Influenza cold	Treated on board.
" 9	s.s. "Clan Colquhoun"	Glasgow	Salford—8	Severe cold	Treated on board.
" 11	s.s. "Tuscarora"	Philadelphia	Stanlow Oil Dock	Influenza cold	Treated on board.
" 14	s.s. "Neva"	Gothenburg, via Stockholm	Salford—7	Nephritis	Removed to hospital, at Stockholm.
" 15	s.s. "Conehatta"	Boston	Salford—9	Venereal disease	Treated on board.
" 23	s.s. "Colonian"	Boston, via Philadelphia	Salford—9	Abscess on ankle	Treated on board.
" 25	s.s. "Magdeburg"	Hamburg, via Bremen	Salford—7	Senile decay	Removed to hospital, at Bremen.
" 25	s.s. "Craster Hall"	Pacific Coast Ports	Salford—9	Pleurisy	Treated on board.
" 30	s.s. "Watchful"	Ayr	Weston Point	Measles	Removed to hospital, at Ayr.
May 5	s.s. "Castilian"	New York	Salford—9	Tonsillitis	Treated on board.

TABLE V. (*continued*).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
May 7	Canal boat "Contrabrand"	—	Ellesmere Port ...	Measles (two cases)	Treated on board.
" 8	s.s. "Appalachee"	Tampico, via Avonmouth	Davyhulme Oil Wharf	Lumbago	Treated on board.
" 11	s.s. "Stuart Prince"	Alexandria	Salford—8	Acute rheumatism ...	Removed to Salford Royal Hospital.
" 12	Canal boat "Cassandra"	—	Ellesmere Port ...	Measles	Treated on board.
" 16	Canal boat "Scipio"	—	Ellesmere Port ...	Influenza	Treated on board.
" 19	Ketch "Marie Celine"	Dublin	Runcorn	Influenza	Treated on board.
" 20	Flat "Annie"	Weston	Weston Point ...	Drowning	Fell overboard.
" 21	s.s. "Polly Bridge"	Workington	Ellesmere Port ...	Severe cold	Treated on board.
" 27	s.s. "San Teodoro"	New Orleans	Stanlow Oil Dock	Cystitis	Treated on board.
" 27	s.s. "Milltown"	Castellon, etc.	Salford—9	Accidents (resulting in loss of finger in each case)	Third engineer removed to hos- pital, at Gibraltar. A fire- man was treated on board.
" 30	s.s. "Ravensworth"	Puerto Mexico	Salford—9	Muscular rheumatism	Treated on board.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
June 5	Ketch "Mary Watkinson"	Par	Runcorn	Dislocated shoulder and severe internal injuries	Removed to hospital, at Runcorn.
" 11	s.s. "British Sergeant"	Abadan	Stanlow Oil Dock	Ague (two cases) } Venereal disease	All treated on board.
" 13	Canal boat "Calais"	—	Ellesmere Port	Debility	Treated on board.
" 16	s.s. "Hertha"	Valencia	Salford—8	Injured foot	Treated on board.
" 16	s.s. "Maihar"	Calcutta, via Avonmouth, London and Dundee	Salford—8	Intestinal obstruction	Removed to hospital, at Avonmouth.
" 23	s.s. "Davisian"	Boston, via Philadelphia	Salford—9	Injured leg	Treated on board.
" 25	s.s. "Kirsten Maersk"	Archangel	Salford—9	Gastritis	Left the vessel.
" 25	s.s. "West Hobomac"	New Orleans, via Liverpool	Salford—8	Scalds	Treated on board.
July 14	Schooner "Amy"	Plymouth	Runcorn	Drowning	Whilst bathing.
" 15	s.s. "Spessart"	Riga via Kiel	Salford—9	Senile decay	Removed to hospital, at Kiel.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
July 16	s.s. "Kenrix"	Liverpool	Weston Point	Dislocated shoulder	Left the vessel, at Liverpool.
" 21	s.s. "La Habra"	Baton Rouge, via Barrow	Stanlow Oil Dock	Influenza	Treated on board.
" 23	s.s. "Manchester Mariner"	St. John	Salford—7	Venereal disease	Treated on board.
" 26	Canal boat "Stork"	—	Weston Point	Abscess	Treated on board.
" 29	Canal boat "Tyne"	—	Weston Point	Goitre	Treated on board.
Aug. 5	Canal boat "Dorothy"	—	Ellesmere Port	Bronchitis and convulsions.	Fatal.
" 5	s.s. "Alexa"	Christiania	Salford—7	Strain	Treated on board.
" 14	s.s. "Java"	Karachi	Sun Mills	Intestinal obstruction	Treated on board.
" 19	s.s. "Rialto"	Glasgow	Salford—8	Hæmorrhoids	Removed to Salford Royal Hospital.
" 21	Schooner "Snowflake"	Par	Runcorn	Influenza	Treated on board.
" 21	s.s. "Nicolas"	Treport	Weston Point	Broken leg	Removed to hospital, at Runcorn.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Aug. 23	s.s. "Diplomat"	Calcutta, via London and Liverpool.	Salford—8	Sunstroke	Died; and was buried ashore at Port Sudan.
" 25	s.s. "Artemis"	Constanza	Stanlow Oil Dock	Chronic diarrhoea Injured ankle	Treated on board. Left vessel, to go into hospital.
" 25	Canal boat "Juliet"	—	Ellesmere Port	Bronchitis	Treated on board.
" 25	s.s. "Branksome Hall"	New York	Salford—9	Senile decay	Treated on board.
" 29	s.s. "West Hobomac"	New Orleans, via Liverpool	Salford—8	Venereal disease Rheumatism	Left the vessel, at Liverpool. Treated on board.
Sept. 3	Schooner "Windermere"	Fowey	Weston Point	Hæmaturia	Treated on board.
" 4	s.s. "Texelstroom"	Amsterdam	Salford—7	Rheumatism	Removed to Salford Royal Hospital.
" 4	s.s. "Knebworth"	London	Salford—8	Pleurisy	Removed to Salford Royal Hospital.
" 10	Canal boat "Liffey"	—	Weston Point	Influenza Bronchitis	Treated on board. Treated on board.
" 17	s.s. "British Commerce"	Swansea	Stanlow Oil Dock	Heart failure	Buried at sea.

TABLE V. (*continued*).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Sept. 19	s.s. "Manchester Hero"	Montreal	Salford—7	Fatal accident	Buried at sea.
" 22	s.s. "City of Cairo"	Karachi, via Liverpool	Salford—8	Influenza (two cases)	Removed to Hope Hospital.
" 23	s.s. "Johanna"	Riga	Warrington Lay-Bye	Throat affection	Treated on board.
" 25	Canal boat "Wyre"	—	Weston Point	Influenza	Treated on board.
" 26	s.s. "Middlesex"	Antwerp	Salford—9	Hernia	Removed to Salford Royal Hospital.
Oct. 1	s.s. "British Hussar"	Abadan, via Portishead	Stanlow Oil Dock	Senile decay	Removed to an asylum.
" 3	s.s. "Maimyo"	Calcutta, via Colombo and London	Salford—8	Dengue	Died on passage home, and was buried at sea.
" 6	s.s. "Morex"	Balik Papan, via Portishead and Barrow	Stanlow Oil Dock	Broken rib	Treated on board.
" 14	s.s. "Algerian Prince"	Alexandria	Salford—3	Venereal disease (two cases)	Left vessel, in Manchester.
" 14	Schooner "Frances and Jane"	London	Widnes	Fatal injuries	Through falling down the hold.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &C., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Oct 15	s.s. "Wiedau "	Hamburg	Salford—7	Venereal disease	Treated on board.
" 20	Schooner "Flying Foam "	Padstow	Weston Point	Diseased bone	Removed to hospital, at Holyhead.
" 27	s.s. "Appalachee "	New Orleans and Tampico	Davyhulme Oil Wharf	Fatal accident	Through being overcome by carbolic acid gas fumes. Was buried at sea.
" 31	Canal boat "Lear "	—	Ellesmere Port	Severe cold	Treated on board.
" 31	s.s. "Auditor "	Calcutta, via London	Salford—8	Venereal disease	Treated on board.
Nov. 14	Canal boat "Korea "	—	Ellesmere Port	Broken arm	Treated on board.
" 15	s.s. "Foldenfjord "	San Pedro	Stanlow Oil Dock	Bronchitis Gastritis	Treated on board. Treated on board.
" 18	s.s. "Roxby "	Montreal	Trafford Wharf ... (Sun Mills)	Fatal accident	Buried at sea.
" 21	s.s. "San Silvestre "	Tuxpan, via Tampico	Barton South Oil Wharf	Venereal disease	Removed to hospital, at Tampico.
" 25	s.s. "Darian "	New Orleans	Salford—9	Hæmorrhage of the lungs	Removed to hospital, at New Orleans.

TABLE V. (continued).—PARTICULARS OF NON-NOTIFIABLE SICKNESS, &c., ON MANCHESTER-BOUND VESSELS.

Date	Name of Vessel	Where from	Where Inspected	Sickness	REMARKS
Dec. 2	s.s. "Galatea"	Almeria, etc.	Salford—8	Pyrexia	Treated on board.
" 6	s.s. "British Light"	Bermuda and Tampico	Stanlow Oil Dock	Appendicitis	Removed to hospital, at Bermuda.
" 11	s.s. "Stock Force"	Antwerp	Ellesmere Port	Food poisoning	Removed to hospital, at Ellesmere Port.
" 11	s.s. "Whinhill"	Calais	Weston Point	Stricture	Treated on board.
" 11	s.s. "Christel Salling"	Valencia and Burriana, via Liverpool	Salford—8	Venereal disease (two cases)	Removed to hospital, at Liverpool.
" 13	s.s. "Faust"	Hamburg	Salford—7	Influenza	Treated on board.
" 15	Ketch "St. Michel"	Jersey	Weston Point	Injured hand	Treated on board.
" 20	s.s. "Argyllshire"	Australia	Salford—9	Septic poisoning of the arm	Treated on board.
" 23	s.s. "West Modus"	New Orleans, via Liverpool	Salford—9	Injured hand	Treated on board.
" 27	s.s. "Inneroy"	Leningrad	Salford—9	Jaundice	Removed to Hope Hospital.
" 30	s.s. "Helios"	Hango	Salford—8 Pier	Gastritis	Treated on board.
" 31	Schooner "Emily Warbrick"	Fowey	Runcorn	Sprained ankles Diarrhœa	Treated on board. Treated on board.
" 31	Canal boat "Miranda"	—	Ellesmere Port	Severe cold	Treated on board.

PREVENTIVE MEASURES AGAINST IMPORTATION OF INFECTIOUS DISEASE.

The existing facilities for preventing the spread of diseases which come within the scope of paragraph 4 of circular 372 were fully dealt with in the Annual Report for the year 1921. This part of the 1921 Report applies in its entirety to the year under review.

DANGEROUS DRUGS ACT, 1920.

No certificates for the supply of scheduled drugs under this Act have been granted during the year.

RAT DESTRUCTION.

During the year there was a large diminution in the total number of rats destroyed on shipboard. The total number obtained from ships was 3,372 and from dock premises 2,930. On shipboard trapping accounted for 2,483, of which number 705 were from ships arriving from Infected Ports, and 889 were destroyed as a result of the thirty-one fumigations carried out during the year.

So far as concerns the control of rats on vessels within the Port, the usual careful enquiries have been made by the Merchant Shipping Inspectors, and all necessary directions given respecting measures to be taken to prevent the transit of rodents between ship and shore. One ship has been notified as infested, and no prosecutions have taken place during the year. There has been no excessive mortality of rats reported, and no dead ones have been brought to the office of the Authority. The special inspections made during the year amounted to 1,113, 952 by Inspector Atkinson and 161 by Inspector Richmond, and 449 ships were found without rat-guards in position. In addition 314 re-visits were made to note if and in what manner instructions had been carried out.

The following tables have been compiled as suggested by the Ministry of Health :—

PRECAUTIONS AGAINST PLAGUE.

TABLE A.
PARTICULARS RELATING TO VESSELS "INFECTED" OR
"SUSPECTED," OR FROM INFECTED PORTS.

Name of Vessel. 1.	Date of Arrival. 2.	Whether infected, suspected or from an infected Port ? 3.	Methods of Rat Destruction employed.			Number of Rats killed. 7.	Whether a certificate of Derat- isation was issued ? 8.	Remarks. 9.
			Fumigation by Sulphur Dioxide. 4.	Fumigation by Hydro- cyanic Acid 5.	Trapping, poisoning, etc. 6.			
s.s. " Highland Prince " ...	Jan. 8	From Inf'd Port	No	No	Trapping	65	—	—
s.s. " Antonio Yannoulatos "	,, 12	,,	,,	,,	No	—	—	—
s.s. " Syrian Prince " ...	,, 18	,,	,,	,,	Trapping	3	—	—
s.s. " Lancastrian Prince "	,, 18	,,	,,	,,	,,	29	—	—
s.s. " Evangelhia M. Diacakis "	,, 25	,,	,,	,,	No	—	—	—
s.s. " Ioannis "	,, 26	,,	,,	,,	,,	—	—	—
s.s. " Siamese Prince " ...	,, 31	,,	,,	,,	,,	—	—	—
s.s. " Algerian Prince " ...	Feb. 7	,,	,,	,,	Trapping	35	—	—
s.s. " Hatasu "	,, 12	,,	,,	,,	No	—	—	—
s.s. " Egyptian Princè " ...	,, 25	,,	,,	,,	Trapping	4	—	—
s.s. " Mandasor "	Mar. 3	,,	,,	,,	,,	10	—	—
s.s. " Cyprian Prince " ...	,, 4	,,	,,	,,	,,	26	—	—
s.s. " Italian Prince " ...	,, 7	,,	,,	,,	,,	16	—	—
s.s. " Lancastrian Prince "	,, 19	,,	,,	,,	,,	51	—	—
s.s. " Scottish Prince " ...	,, 19	,,	,,	,,	,,	54	—	—
s.s. " Elswick Grange " ...	,, 24	,,	,,	,,	No	—	—	—
s.s. " Falernian "	,, 28	,,	,,	,,	,,	—	—	—
s.s. " Highland Prince " ...	,, 31	,,	,,	,,	Trapping	15	—	—
s.s. " Arabian Prince " ...	April 11	,,	,,	,,	No	—	—	—
s.s. " Cyprian Prince " ...	,, 23	,,	,,	,,	Trapping	22	—	—
s.s. " Algerian Prince " ...	,, 23	,,	,,	,,	,,	21	—	—

PRECAUTIONS AGAINST PLAGUE. TABLE A (*continued*).

Name of Vessel. 1.	Date of Arrival. 2.	Whether infected, suspected or from an infected Port ? 3.	Methods of Rat Destruction employed.			Number of Rats killed. 7.	Whether a certificate of Deratation was issued ? 8.	Remarks. 9.
			Fumigation by Sulphur Dioxide. 4.	Fumigation by Hydrocyanic Acid 5.	Trapping, poisoning, etc. 6.			
s.s. "Stuart Prince" ...	May 12	From Inf'd Port	No	No	Trapping	9	—	—
s.s. "Roedelheim"	" 19	"	"	"	No	—	—	Cargo of timber.
s.s. "Italian Prince" ...	" 29	"	"	"	Trapping	12	—	—
s.s. "Lancastrian Prince"	June 11	"	"	"	"	8	—	—
s.s. "Songdal"	" 19	"	"	"	No	—	—	Cargo of timber.
s.s. "Egyptian Prince" ...	" 25	"	"	"	Trapping	15	—	—
s.s. "Amazon"	" 27	"	"	"	—	—	—	Cargo of timber.
s.s. "Syrian Prince" ...	July 9	"	"	"	Trapping	10	—	—
s.s. "Bardistan"	" 21	"	"	"	No	—	—	No cargo.
s.s. "Cyprian Prince" ...	" 24	"	"	"	"	—	—	—
s.s. "Mentor"	" 31	"	"	"	"	—	—	Cargo of timber.
s.s. "Algerian Prince" ...	Aug. 8	"	"	"	Trapping	15	—	—
s.s. "Silvanus"	" 11	"	"	"	No	—	—	Oil tank.
s.s. "Java"	" 14	"	"	"	"	—	—	—
s.s. "Lady Astley"	" 19	"	"	"	"	—	—	—
s.s. "Snowdon"	" 22	"	"	"	"	—	—	—
s.s. "Lord Harrington" ...	" 22	"	"	"	Trapping	65	—	Cargo of grain.
s.s. "Alpha"	" 25	"	"	"	No	—	—	—
s.s. "Lancastrian Prince"	" 25	"	"	"	"	—	—	—
s.s. "Artemis"	" 25	"	"	"	"	—	—	Oil tank.
s.s. "Medomsley"	Sept. 1	"	"	"	"	—	—	—
s.s. "Egyptian Prince" ...	" 9	"	"	"	Trapping	18	—	—
s.s. "Syrian Prince" ...	" 24	"	"	"	"	20	—	—
s.s. "Scottish Prince" ...	Oct. 3	"	"	"	"	15	—	—

PRECAUTIONS AGAINST PLAGUE. TABLE A (*continued*).

Name of Vessel. 1.	Date of Arrival. 2.	Whether infected, suspected or from an infected Port ? 3.	Methods of Rat Destruction employed.			Number of Rats killed. 7.	Whether a certificate of Derat-isation was issued? 8.	Remarks. 9.
			Fumigation by Sulphur Dioxide. 4.	Fumigation by Hydro cyanic Acid 5.	Trapping, poisoning, etc. 6.			
s.s. " Debreczen "	Oct. 10	From Inf'd Port	No	No	No	—	—	Cargo of timber.
s.s. " Algerian Prince "	" 14	"	"	"	Trapping	24	—	—
s.s. " Lancastrian Prince "	" 23	"	"	"	"	14	—	—
s.s. " Absalon "	" 24	"	"	"	No	—	—	—
s.s. " Egyptian Prince "	Nov. 6	"	"	"	Trapping	17	—	—
s.s. " Stuart Prince "	" 15	"	"	"	"	11	—	—
s.s. " Ixia "	" 17	"	"	"	No	—	—	—
s.s. " City of Lancaster "	" 20	"	"	"	"	—	—	—
s.s. " Dramatist "	" 25	"	"	"	"	—	—	—
s.s. " Italian Prince "	Dec. 1	"	"	"	Trapping	20	—	—
s.s. " Lynntown "	" 4	"	"	"	No	—	—	—
s.s. " Scottish Prince "	" 4	"	"	"	Trapping	33	—	—
s.s. " Arabian Prince "	" 9	"	"	"	"	17	—	—
s.s. " Cyprian Prince "	" 15	"	"	"	"	23	—	—
s.s. " Sitra "	" 22	"	"	"	No	—	—	—
s.s. " Windermere "	" 22	"	"	"	"	—	—	—
s.s. " Chinese Prince "	" 29	"	"	"	"	—	—	—
s.s. " Kioto "	" 29	"	"	"	"	—	—	—
s.s. " Syrian Prince "	" 31	"	"	"	Trapping	8	—	—
Total...						705		

TABLE B.
SHEWING THE NUMBER OF RATS CAUGHT ON SHIPBOARD EACH MONTH.

Number of	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total in year.
Black Rats	31	27	52	82	113	77	58	77	65	25	72	54	733
Brown Rats	54	38	15	24	48	44	16	32	24	33	32	45	405
Grey Rats	317	110	141	88	77	72	43	106	53	105	76	157	1,345
*Unclassified Rats	163	—	32	19	84	146	68	18	76	84	43	156	889
Rats Examined	—	—	—	—	—	—	10	6	—	6	6	4	32
Rats Infected with Plague	—	—	—	—	—	—	—	—	—	—	—	—	—
Rats Not Infected ...	—	—	—	—	—	—	10	6	—	6	6	4	32

* These rats were picked up after fumigations.

† In addition 30 mice were caught on board s.s. "Maimyo."

TABLE C.

VESSELS (OTHER THAN THOSE DEALT WITH IN TABLE A), SUBJECTED TO MEASURES OF RAT DESTRUCTION.

Number of Vessels fumigated by SO ₂ . 1.	Number of Rats killed.	Number of Vessels fumigated by HCN. 3.	Number of Vessels which trapping, poisoning, etc., were employed 5.	Number of Rats killed. 4.	Number of Rats killed. 6.	Number of Fumigation Certificates issued on Form "Port 10,"* 7.	Number of other certificates issued. 8.	Remarks. 9.
31	889	Nil.	141	Nil.	1,778	31	15	Column 8. Three being certificates that a ratcatcher had been employed on board, and twelve that proper precautions had been taken whilst in port.

* NOTE.—Form "Port 10" is issued only by the Port Medical Officers of Health for Bristol, Cardiff, Hull, Liverpool, London, Manchester, Southampton, Swansea and Weymouth for vessels proceeding to U.S.A. ports.

FOOD INSPECTION.

IMPORTATION OF LIVE STOCK.

The following table shews the total number of live stock imported during the year :—

				Cattle.	Sheep and Lambs.	Pigs.
Coastwise (Irish)	...	*25,685	...	†27,387	...	‡970
Overseas (Canadian)	...	\$10,610	...	—	...	—

RESULTS OF INSPECTION.

The following tables show the amount of Food Imports which have been condemned during the year ; Table A giving particulars of seizures at the Foreign Animals Wharf and the Irish Animals Landing Place, and Table B giving particulars of seizures on the various Dock Quays. It will also be noticed from Table C that a quantity of tinned goods, etc., have been voluntarily surrendered for destruction. Table D shews the articles seized in the Runcorn Section.

* Including 13 landed dead.

†	9	and 1 calf.
§	2	and 1 calf.
‡	5	

(A)

OVERSEAS.					Weight.			
CATTLE.					T.	c.	q.	lbs.
2 Carcases...	...	...	...	...	0	11	0	8
2 Sets of Offal	...	...	...	...	0	2	2	21
11 Heads	...	...	...	...	0	2	0	22
5 Tongues	...	...	...	...	0	0	0	21
37½ Sets of Lungs	...	...	...	...	0	2	0	8½
10 Hearts	...	...	...	...	0	0	1	8½
8 Gullets	...	...	...	...	0	0	0	7½
86 Livers	...	...	...	...	0	8	1	13
10 Spleens	...	...	...	...	0	0	0	18½
7 First Stomachs (Rumen)	...	...	...	...	0	1	0	2
7 Second Stomachs (Reticulum)	...	...	...	...	0	0	0	24
7 Fourth Stomachs (Abomasum)	...	...	...	...	0	0	1	0
5 Kidneys	...	...	...	...	0	0	0	6
2 Sets of Intestines	...	...	...	...	0	0	1	2
1 Mesentery	...	...	...	...	0	0	0	16
2 Omentums	...	...	...	...	0	0	0	20
3 Rectums	...	...	...	...	0	0	0	12
1 Foot	...	...	...	...	0	0	0	5
1 Tail	...	...	...	...	0	0	0	3
TOTAL					1	9	1	22

COASTWISE.					Weight.			
CATTLE.					T.	c.	q.	lbs.
3 Carcases and parts	...	...	...	...	0	16	3	18
3 Sets of Offal	...	...	...	...	0	3	3	10
2 Gullets	...	...	...	...	0	0	0	2
2 Sets of Lungs	...	...	...	...	0	0	0	15
5 Livers	...	...	...	...	0	0	2	0
2 Spleens	...	...	...	...	0	0	0	5
2 First Stomachs (Rumen)	...	...	...	...	0	0	1	4
2 Second Stomachs (Reticulum)	...	...	...	...	0	0	0	8
2 Fourth Stomachs (Abomasum)	...	...	...	...	0	0	0	8
2 Rectums	...	...	...	...	0	0	0	6
5 Feet	...	...	...	...	0	0	0	13
1 Skirt	...	...	...	...	0	0	0	2
1 Set of Intestines	...	...	...	...	0	0	0	16
					1	2	0	23

(A) *continued.*

SHEEP.					Weight.			
					T.	c.	q.	lbs.
4 Carcases...	...	...	...	...	0	1	2	12
4 Sets of Offal	...	...	...	...	0	0	1	12
1 Pluck	...	...	...	...	0	0	0	3
					<hr/>			
					0	1	3	27
					<hr/>			
PIGS.								
1 Carcase and parts	...	...	...	...	0	2	0	16
1 Set of Offal	...	...	...	...	0	0	0	20
					<hr/>			
					0	2	1	8
					<hr/>			
TOTALS—COASTWISE					...	1	6	2 2
OVERSEAS					...	1	9	1 22
					<hr/>			
GROSS TOTAL					...	2	15	3 24
					<hr/>			

(B)

Articles.					Weight.			
Grain, Cereals, &c.—					T.	c.	q.	lbs.
Wheat	...	...	...	...	58	16	3	0
Rice	...	...	...	...	25	11	0	7
Oats and Oatmeal	...	...	...	...	6	13	0	16
Maize	...	...	...	...	5	1	1	2
Flour	...	...	...	...	1	2	0	7
Corn Grits	...	...	...	...	0	10	3	19
Cornflour	...	...	...	...	0	2	3	22
Fruit and Vegetables—								
Pears (4,866 packages)	...	...	...	...	67	8	2	20
Apples (1,136 boxes and 848½ barrels)	...	...	...	...	62	13	1	14
Oranges (832½ boxes and 141 half-boxes)	...	...	...	...	44	13	0	0
Carrots (226 bags)	...	...	...	...	11	6	0	0
Dates (197 boxes)	...	...	...	...	4	8	0	0
Gooseberries (200 bags)	...	...	...	...	2	19	0	13
Onions (22 bags)	...	...	...	...	1	2	0	0
Mandarins (36 half-cases)	...	...	...	...	0	18	0	0

(B) *continued.*

Articles.				Weight.			
Tinned Foods—				T.	c.	q.	lbs.
Apples (1,132 tins)	...	...	...	3	0	2	16
Fruit Pulp (419 tins)	...	...	...	1	17	1	18
Apricot Pulp (124 tins)	...	...	...	0	11	0	12
Bilberries (208 tins)	...	...	...	0	4	3	8
Tomatoes (39 tins)	...	...	...	0	4	0	0 $\frac{1}{2}$
Raspberry Pulp (2 tins)	...	...	...	0	0	0	20
Boiled Mutton (2 tins)	...	...	...	0	0	0	12
Salmon (14 tins)	...	...	...	0	0	0	11 $\frac{1}{2}$
Blackcurrant Pulp (1 tin)	...	...	...	0	0	0	10
Cherries (4 tins)	...	...	...	0	0	0	6
Boiled Beef (1 tin)	...	...	...	0	0	0	6
Evaporated Milk (4 tins)	...	...	...	0	0	0	4
Loganberries (4 tins)	...	...	...	0	0	0	4
Peaches (1 tin)	...	...	...	0	0	0	2 $\frac{1}{2}$
Lunch Tongue (1 tin)	...	...	...	0	0	0	0 $\frac{3}{4}$
Miscellaneous—							
Chocolates (568 cases)	...	...	...	25	7	0	16
Lemon Spads (9 pipes and 3 half-pipes)				3	4	2	0
Sugar	...	...	...	2	17	2	8
Macaroni	...	...	...	2	11	1	14
Orange Peel (8 pipes)	...	...	...	2	10	0	0
Tea	...	...	...	1	1	2	27
Potatoes (11 bags)	...	...	...	0	11	0	0
Lard (40 pails and 2 boxes)	...	...	...	0	11	0	0
Butter (16 boxes)	...	...	...	0	8	0	0
Bacon	...	...	...	0	4	3	0
Onions in Brine (1 cask)	...	...	...	0	4	0	0
Desiccated Coconut	...	...	...	0	1	0	0
Margarine	...	...	...	0	1	0	0
Shelled Peanuts (1 bag)	...	...	...	0	1	0	0
Currants	...	...	...	0	0	3	14
TOTAL				338	19	3	22 $\frac{1}{4}$
TOTAL—TABLE A				2	15	3	24
GROSS TOTAL				341	15	3	18 $\frac{1}{4}$

(C)

(Voluntarily Surrendered).

Articles.					Weight.			
					T.	c.	q.	lbs.
Apricots (758 tins)	...	...	...	...	0	15	0	25½
Soup (892 tins)	...	...	...	...	0	7	3	26
Milk (115 tins)	...	...	...	...	0	0	3	6
Lunch Tongue (5 tins)	...	...	...	...	0	0	1	2
Peas (3 tins)	...	...	...	...	0	0	0	3
TOTAL					1	4	1	6½

(D)

Articles.						Weight.			
						T.	c.	q.	lbs.
Wheat	...	...	...	...	...	25	0	0	0

FRESH MEAT.

Particulars respecting emergency slaughters, owing to accident or ordered by the Inspector of the Ministry of Agriculture and Fisheries, and also slaughters carried out on the instructions of the owners, are as follows :—

OVERSEAS (CANADIAN) CATTLE.

LANDED.		DISPOSALS.		
Alive.	Dead.	Slaughtered.	Removed Alive by Rail.	Removed Alive by Road.
10,607 and 1 calf.	2	3,076 and 1 calf.	4243,	3,288

COASTWISE (IRISH) LIVE STOCK.

LANDED.

CATTLE.		SHEEP AND LAMBS.		PIGS.	
Alive.	Dead.	Alive.	Dead.	Alive.	Dead.
25,672	13	27,378	9	965	5

DISPOSALS.

CATTLE.				SHEEP AND LAMBS.				PIGS.			
Slaughtered by instructions of M.A.F. Owners.		Removed Alive by Rail. Road.		Slaughtered by instructions of M.A.F. Owners.		Removed Alive by Rail. Road.		Slaughtered by instructions of M.A.F. Owners.		Removed Alive by Road. Rail.	
6	49	4,806	20,811	115	12	5,179	22,072	—	7	403	555

The condemnations are shewn in Table "A."

TABLE SHEWING THE NUMBER OF ANIMALS SLAUGHTERED AT THE FOREIGN ANIMALS WHARF, THE IRISH ANIMALS LANDING PLACE AND ON BOARD SHIP, AND THE NUMBERS FROM WHICH CONDEMNATIONS WERE MADE.

*No. Killed.	CARCASSES CONDEMNED.					
	Tuberculosis.		Decomposition.		Other Diseases, etc.	
	Wholly.	Partly.	Wholly.	Partly.	Wholly.	Partly.
Overseas :						
†3079 Cattle	—	18	—	—	2	123
Coastwise :						
68 Cattle ...	—	—	3	—	—	9
136 Sheep ...	—	—	—	—	4	1
12 Pigs ...	—	—	—	—	1	1

* And including those animals landed dead.
† Including 1 calf.

Samples for examination forwarded to the Manchester Public Health Laboratory during the year were :—

Article.	Object of Examination.	Result.
Butter	Evidence of putrefaction	Confirmed.
Ground Nutmegs ...	Unsoundness.	No report yet received.

THE SANITARY CONDITION OF SHIPS.

The number of vessels registered under the Merchant Shipping Act inspected during the year, totals 2,028. Of these 613 were found with insanitary conditions of various kinds. When compared with the numbers for 1923, a decrease under both headings is noted. In 1923 the Inspections numbered 2,040, and the defective vessels 651. The percentage of defective vessels is therefore 1.69 lower for 1924. In the Manchester Section there is a decrease of five inspections from the previous year, and in the Runcorn Section a decrease of 7. The following Table shews the total number of vessels inspected in the Port, together with the total numbers and percentage of defective vessels each year, from 1898 to 1924 inclusive.

Mr. Hadley and Mr. Whalley have assisted in the duties of inspection in each section of the Port as occasion arose.

The total number of vessels inspected within the Port, together with the total number of percentages of defective vessels, from 1898 to 1924 :—

Year.	No. Inspected.	No. Defective.	Percentage.
1898	1346	263	19.5
1899	1294	251	19.4*
1900	1610	231	14.4*
1901	1344	263	19.5
1902	2477	870	35.1
1903	2585	916	38.4
1904	2621	1241	47.35
1905	2510	1169	46.57
1906	2284	984	43.08
1907	2592	1014	39.12
1908	2562	954	37.22
1909	2871	1062	36.99
1910	2879	1003	34.86
1911	2853	1033	36.20
1912	2778	871	31.35
1913	2786	904	32.44
1914	2775	810	29.19
1915	2623	749	28.61
1916	2264	729	32.20
1917	1919	633	32.98
1918	1672	555	33.19

Year.		No. Inspected.		No. Defective.		Percentage.
1919	.....	1875	.....	621	.....	33.12
1920	.....	2015	.....	651	.....	32.30
1921	.....	1611	.....	443	.....	27.49
1922	.....	1898	.....	568	.....	29.92
1923	.....	2040	.....	651	.....	31.91
1924	.....	2028	.....	613	.....	30.22

The number of vessels inspected at various points within the Port during each year are shewn as follows :—

Comparison as to the number of vessels inspected at various points within the Port :—

Year.	Manchester and Salford.	Runcorn and Weston Point.	Ellesmere Port.	Widnes.	Other Places.
1898	... 762	... 386	... 111	... 60	... 27
1899	... 667	... 308	... 108	... 43	... 168*
1900	... 619	... 331	... 80	... 63	... 517*
1901	... 861	... 313	... 70	... 66	... 34
1902	... 1194	... 862	... 137	... 174	... 110
1903	... 1087	... 737	... 192	... 206	... 163
1904	... 1186	... 965	... 175	... 155	... 137
1905	... 1157	... 863	... 164	... 135	... 191
1906	... 1105	... 731	... 173	... 99	... 176
1907	... 1223	... 883	... 191	... 125	... 167
1908	... 1286	... 852	... 171	... 82	... 171
1909	... 1338	... 890	... 273	... 174	... 196
1910	... 1359	... 969	... 285	... 156	... 110
1911	... 1390	... 909	... 264	... 97	... 193
1912	... 1369	... 955	... 235	... 94	... 125
1913	... 1414	... 912	... 223	... 111	... 126
1914	... 1304	... 821	... 283	... 156	... 211
1915	... 1345	... 663	... 258	... 106	... 251
1916	... 1163	... 579	... 206	... 141	... 177
1917	... 947	... 498	... 188	... 136	... 150
1918	... 795	... 474	... 127	... 145	... 131
1919	... 843	... 543	... 189	... 97	... 203
1920	... 886	... 627	... 210	... 79	... 213
1921	... 875	... 395	... 82	... 80	... 179
1922	... 1056	... 411	... 160	... 98	... 173
1923	... 997	... 501	... 180	... 104	... 258
1924	... 1004	... 512	... 186	... 112	... 214

* Extra Inspector at Eastham.

The following Table shews the progress made during the year in obtaining the remedy of defects.

VESSELS RENDERED SANITARY.

			1916	1917	1918	1919	1920	1921	1922	1923	1924
January	...	...	35	10	16	17	9	12	4	20	17
February	...	...	39	28	20	18	34	20	10	20	34
March	...	...	50	28	33	26	24	15	15	26	29
April	...	...	46	29	32	8	11	16	18	25	32
May	...	...	71	26	18	22	20	11	27	41	26
June	...	...	61	34	25	32	22	13	31	21	26
July	...	...	43	33	25	19	20	10	26	33	26
August	...	...	56	13	38	18	24	8	23	28	36
September	...	...	54	32	30	20	20	13	23	27	35
October	...	...	50	35	26	23	9	26	23	48	27
November	...	...	33	33	23	20	29	13	31	27	28
December	...	...	86	39	39	28	26	4	31	28	28
Totals	...	...	396	340	325	251	248	161	262	344	344

Forty-one Public Health Notices have been served, as against thirty-seven in 1923. It has been ascertained that twenty-three of these have been fully complied with, two partly, and one was not complied with. There has been no opportunity of inspecting the other vessels.

PROSECUTION.

The Bishop Wharf Carrying Company were prosecuted for a nuisance existing on their Barge "Emily I.," the case being heard at Ellesmere Port Police Court on December 3rd.

The offence was on all-fours with that referred to in the last Annual Report, viz. :—dampness of cabin and bedding owing to rain

water and river wash penetrating through the scuttle hatchway. On this occasion the Magistrate decided that no nuisance had been proved and dismissed the summons.

Owing to the well known evil influence of the housing conditions on these boats, the bargeman is nothing like the healthy individual he ought to be, so that it is somewhat unfortunate that efforts to improve his surroundings should meet with discouragement of this kind. These men in the nature of things have to live as well as work on their boats. The occupation should be favourable to good health owing to being carried on in the open air and involving a considerable amount of muscular exercise, and although at times there is severe exposure to weather, these occurrences are irregular and rarely prolonged; again it is most unusual on inland waterways to load boats except during daylight.

The recent decennial supplement to the annual reports of the Registrar-General for England and Wales provides exceedingly valuable information on occupational mortalities, and may be usefully quoted to illustrate the unhealthiness of this particular occupation. The period covered is the three years 1910, 1911, and 1912, and a perusal of the table applying to bargemen and lightermen shews the comparative mortality figure of the industry to be 1,102, which compares very badly with the figure of 790 for all occupied males and the figure of 470 for the open air occupation of farm labourer and 858 for what one might conceive to be the like occupation of fisherman. Although there is an excess of liability to fatal accidents as shewn by the mortality rate of 193 against the average one of 49, this is by no means sufficient to explain away the high mortality figure. His life is affected by the drink habit and venereal disease to a slightly greater extent than obtains with the average male worker, but what really appears to carry him off is his excessive liability to respiratory diseases, particularly pneumonia. The fisherman whose record shews the effect of a strenuous life equally with that of the "bargee" is in a totally different class when respiratory diseases are taken into account. The liability of the "bargee" to die from phthisis is the same as that for

all male workers, but there is an excess of liability to die from diseases of the circulatory system. The following table of comparative mortality figures will shew the position at a glance :—

					Barge- man.		Fisher- man.		Occupied and Retired Males.		Farm Labourer.
Phthisis	...	...	...	...	142	...	101	...	142	...	71
Cancer	...	...	...	...	88	...	88	...	78	...	54
Locomotorataxy and G.P.I.					38	...	32	...	18	...	6
Cerebal H., Apoplexy				...	48	...	31	...	36	...	16
Other diseases of Nervous System	...	...	...	...	36	...	38	...	28	...	21
Diseases of the Circulatory System	...	...	...	...	162	...	144	...	118	...	74
Bronchitis	...	...	...	...	67	...	21	...	38	...	14
Pneumonia	...	...	...	...	105	...	55	...	67	...	39
Other Respiratory Diseases					21	...	12	...	15	...	10
Total Respiratory Diseases...					193	...	88	...	120	...	63

An investigation into the class of living accommodation provided on this particular class of craft does not leave much doubt as to the real reason for this excessive mortality from respiratory diseases, as well as accounting to some considerable extent for the greater liability to death from diseases of the circulation.

TOTALS OF MONTHLY INSPECTIONS FOR 1910-21-22-23-24.

1910. (Record Year)																	1921.			1922.			1923.			1924.					
	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.	M/c.	RUN- CORN.	TOTAL.										
January ...	90	86	176	51	38	89	59	33	92	63	46	109	52	49	101																
February ...	97	110	207	72	74	146	80	44	124	91	88	179	82	82	164																
March ...	111	111	222	57	35	92	93	38	131	87	65	152	97	96	193																
April ...	98	107	205	82	69	151	86	45	131	103	74	177	76	69	145																
May ...	133	149	282	87	47	134	110	77	187	87	89	176	80	87	167																
June ...	121	112	233	76	35	111	91	77	168	81	79	160	105	81	186																
July ...	114	128	242	54	49	103	115	91	206	115	113	228	85	73	158																
August ...	135	129	264	89	37	126	94	62	156	81	70	151	90	93	183																
September	107	120	227	86	77	163	95	64	159	87	62	149	113	108	221																
October ...	139	157	296	103	90	193	103	76	179	103	93	196	92	79	171																
November...	104	100	204	89	54	143	91	61	152	87	48	135	92	53	145																
December	176	145	321	117	43	160	132	81	213	124	104	228	140	54	194																
TOTALS ...	1425	1454	2879	963	648	1611	1149	749	1898	1109	931	2040	1104	924	2028																
INCREASE (+) OR DECREASE (—) from previous year				—50				+186				+287				+142				—5				—7				—12			

1924.—TABLE A.

Shewing the number of vessels inspected and found insanitary arriving from Foreign and Coastwise Ports :—

			Inspected.	Insanitary.	No. of Orders issued under P. H. Act.
Foreign—					
Steamships	...	...	1098	285	0
Sailing Vessels	...	...	2	2	0
			—	—	—
Totals	...	...	1100	287	0
			—	—	—
Coastwise—					
Steamships	...	...	607	203	10
Sailing Vessels	...	...	321	123	31
			—	—	—
Totals	...	...	928	326	41
			—	—	—
Gross Totals	...		2028	613	41

TABLE B.

Shewing the number of British and Foreign vessels inspected and number found insanitary :—

				Inspected.	Insanitary.
British Steamships	...	...	...	1178	360
„ Sailing Vessels	...	...	...	154	49
„ Flats and Barges	...	...	...	168	75
Foreign Steamships	...	...	...	527	128
„ Sailing Vessels	...	...	...	1	1
				—	—
Totals	...	...	...	2028	613
				—	—
Re-visits	...	...	...	433	
Gross Total of Visits and Re-visits				2461	

TABLE C.

Shewing the number of vessels inspected and number found insanitary at different points in the Port :—

				Inspected.	Insanitary.
Acton Grange	...	...	...	19	4
Astmoor Marsh (Wigg's Works)	...			35	10
Barton	...	...	...	13	3
Davyhulme	...	...	...	21	3
Eastham	...	...	...	3	0
Eccles (including Irwell Park Wharf)				55	17
Ellesmere Port	...	...	...	186	74
Latchford	...	...	...	1	1
Manchester, Saltord and Stretford				1004	264
Partington	...	...	...	11	0
Runcorn	...	...	...	259	80
Stanlow Oil Dock	...	...	...	38	9
Warrington	...	...	...	14	2
Weston Point	...	...	...	253	101
Weston Mersey Lock		...	...	4	1
Widnes	...	...	...	112	44
				<hr/>	<hr/>
Totals	...	...	...	2028	613
				<hr/>	<hr/>

TABLE D.

Shewing the Nationalities of the vessels inspected and number found insanitary :—

					Inspected.	Insanitary.
British	...	...	...	...	1500	484
American (U.S.)	...	...	...	...	87	22
Belgian	...	...	...	...	2	2
Danish	...	...	...	...	70	17
Dutch	...	...	...	...	20	4
Esthonian	...	...	...	...	3	1
Finnish	...	...	...	...	16	3
French	...	...	...	...	7	4
German	...	...	...	...	64	6
Greek	...	...	...	...	14	10
Hungarian	...	...	...	...	2	2
Italian	...	...	...	...	5	4
Jugo-Slav	...	...	...	...	1	1
Latvian	...	...	...	...	3	1
Norwegian	...	...	...	...	138	36
Russian	...	...	...	...	3	1
Spanish	...	...	...	...	15	3
Swedish	...	...	...	...	78	12
Totals					2028	613

TABLE E.

Shewing the number of crews of various Nationalities on vessels inspected during the year :—

British—					
Europeans	...	...	...	...	27,785
Lascars	...	...	...	...	5,196
Chinese	...	...	...	...	268
Arabs	...	...	...	...	23
Egyptians	...	...	...	...	7
Goanese	...	...	...	...	5
					<hr/>
					33,284
American (U.S.)	...	...	...	...	3,092
Norwegian	...	...	...	...	2,984
Swedish	...	...	...	...	1,410
Danish	...	...	...	...	1,365
German	...	...	...	...	1,184
Finnish	...	...	...	...	417
Spanish	...	...	...	...	400
Greek	...	...	...	...	399
Dutch	...	...	...	...	378
Italian	...	...	...	...	162
French	...	...	...	...	153
Russian	...	...	...	...	88
Esthonian	...	...	...	...	79
Latvian	...	...	...	...	79
Hungarian	...	...	...	...	70
Belgian	...	...	...	...	42
Jugo-Slav	...	...	...	...	29
Total					<hr/>
					45,615
					<hr/>

TABLE F.

Giving particulars of insanitary conditions found in the different vessels inspected :—

CREW'S QUARTERS.	Steam Ships.	Sailing Vessels.	Flats and Barges.
Accumulations of dirt and refuse in quarters	6	—	—
Accumulations of stagnant water in quarters....	36	—	—
Air pipe to ballast tank terminating in fore- castle	2	—	—
Bilges requiring or inaccessible for cleaning ...	1	—	—
Bulkheads defective, allowing communication between w.c.'s, holds, etc., and quarters	7	1	6
Chain lockers open to forecastles, casing defective, etc.	7	—	—
Chain locker casing broken	3	—	—
Condensed moisture forming on iron decks and beams	2	—	—
Decklights, portlights, etc., broken and defective.....	122	14	13
Drainage of quarters defective, allowing com- munication with w.c.'s, etc.....	20	—	—
Forecastles, etc., requiring cleansing, painting, limewashing, etc.	142	17	23
Forecastles, etc., infested with vermin	4	1	—
Forecastles, etc., deficient in lighting	8	3	4

	Steam Ships.	Sailing Vessels.	Flats and Barges.
Forecastles, etc., deficient in lighting owing to lights being covered by deck cargo, etc.	12	—	—
Flooring, fittings, etc., defective	15	3	1
Forecastles overheated owing to cooking being done in same, or other cause	3	1	1
Iron over bunks unsheathed	3	—	1
Miscellaneous leakages into quarters	57	19	62
Paint, oil, etc., lockers open to quarters	1	—	—
Ship's gear, stores, etc., kept openly in, or in communication with quarters.....	5	2	—
Ventilation inefficient or ventilators defective ...	28	6	3
CONDITION OF DECKS.			
Accumulations of dirt and refuse about decks ...	20	—	—
HEATING.			
Stoves and stove pipes defective.....	25	7	16
No stove or stove pipe provided	2	—	—
OVERCROWDING			
And uncertified accommodation occupied	3	—	3
Certified accommodation not marked in fore- castle	3	—	—
STORAGE OF FOOD.			
Lockers without doors	2	—	—

	Steam Ships.	Sailing Vessels.	Flats and Barges.
Lockers requiring cleansing, limewashing, painting, repairing, etc.....	1	—	—
Food kept open in quarters	1	—	—
STORAGE OF WATER.			
Water tanks, etc., requiring cleansing.....	38	—	—
Water tanks not accessible for cleansing.....	1	—	1
Water tanks, casks, etc., in a defective condition	7	1	5
No water receptacle : or receptacle of insufficient capacity	1	—	3
Water receptacle kept in a position liable to contamination	1	—	—
WATER CLOSETS.			
Flushing apparatus defective	45	—	—
Flush and soil pipes defective	14	—	—
Pans, urinals, etc., in a foul or defective condition	8	5	—
Closets in foul condition.....	17	—	—
,, require limewashing.....	3	—	—
,, deficient in light or ventilation, or both	2	—	—
,, doors and seats absent or requiring repairs	6	—	—
Insufficient accommodation or no accommodation provided.....	2	—	—
Totals.....	686	80	142

SHIPPING ENTERING THE PORT DURING THE YEAR.

	Number.	Tonnage.	Number inspected.	Number reported to be defective.	No. of Orders issued.
Foreign	2092	2,844,933	} 1098	285	0
	25	47,402			
	13	1167		*2	0
	2130	2,893,502	1100	287	0
TOTAL FOREIGN					
Coastwise	2084	495,688	} 607	203	10
	114	14,549			
	162	16,415		*123	31
	2360	526,652	928	326	41
TOTAL COASTWISE					
TOTAL FOREIGN AND COASTWISE ...					
	4490	3,420,154	2028	613	41

* This includes Flats and Barges engaged in Inland Navigation.
† Includes mechanically propelled vessels other than steamers.

CATTLE BOATS.

The following are the particulars respecting the overseas cattle trade of the port :—

DATE OF ARRIVAL.	NAME OF VESSEL.	FROM	SHIPPED.	LOST AT SEA.	LANDED ALIVE.
April 8 ...	s.s. " Manchester Producer "	Halifax, N.S. ...	326	1	325†
" 22 ...	s.s. " Manchester Division "	Halifax, N.S. ...	366	2	364
May 5 ...	s.s. " Manchester Corporation "	Halifax, N.S. ...	449	1	448
" 21 ...	s.s. " Manchester Regiment "	Montreal ...	266	0	266
" 27 ...	s.s. " Manchester Brigade "	Montreal ...	400	1	399
June 5 ...	s.s. " Manchester Hero "	Montreal ...	109	0	109
" 10 ...	s.s. " Manchester Division "	Montreal ...	427	0	427
" 18 ...	s.s. " Manchester Corporation "	Montreal ...	547	4	543
" 27 ...	s.s. " Manchester Importer "	Montreal ...	520	0	520
July 1 ...	s.s. " Manchester Producer "	Montreal ...	441	0	441
" 7 ...	s.s. " Manchester Regiment "	Montreal ...	276	0	276
" 16 ...	s.s. " Manchester Brigade "	Montreal ...	181	0	181
" 23 ...	s.s. " Manchester Hero "	Montreal ...	75	0	75
" 28 ...	s.s. " Manchester Division "	Montreal ...	18	0	18
Aug. 6 ...	s.s. " Manchester Corporation "	Montreal ...	140	0	140

DATE OF ARRIVAL.	NAME OF VESSEL.	FROM	SHIPPED.	LOST AT SEA.	LANDED ALIVE.
Aug. 26 ...	s.s. "Manchester Brigade" ...	Montreal ...	236	1	235
Sept. 9 ...	s.s. "Manchester Division" ...	Montreal ...	217	0	215*
" 19 ...	s.s. "Manchester Hero" ...	Montreal ...	221	0	221
" 23 ...	s.s. "Manchester Corporation" ...	Montreal ...	655	1	654
Oct. 1 ...	s.s. "Manchester Importer" ...	Montreal ...	536	0	536
" 11 ...	s.s. "Manchester Brigade" ...	Montreal ...	437	0	437
" 17 ...	s.s. "Manchester Regiment" ...	Montreal ...	275	1	274
" 24 ...	s.s. "Manchester Producer" ...	Montreal ...	477	0	477
Nov. 3 ...	s.s. "Manchester Division" ...	Montreal ...	488	0	488
" 6 ...	s.s. "Manchester Hero" ...	Montreal ...	225	0	225
" 13 ...	s.s. "Manchester Corporation" ...	Montreal ...	564	0	564
" 22 ...	s.s. "Manchester Importer" ...	Montreal ...	429	0	429
" 27 ...	s.s. "Manchester Brigade" ...	Montreal ...	339	0	339
Dec. 8 ...	s.s. "Manchester Producer" ...	Montreal ...	453	0	453
" 15 ...	s.s. "Manchester Regiment" ...	Montreal ...	134	0	134
" 19 ...	s.s. "Manchester Division" ...	Halifax and St. John ...	395	1	394
TOTALS ...			10,622	13	10,607

* Excluding two landed dead.

† Excluding one calf born during passage.

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF
MANCHESTER, TOGETHER WITH CHIEF IMPORTS
FROM, AND EXPORTS TO, SUCH PORTS.

COASTWISE.

PORT.	IMPORTS.	EXPORTS.
Aberdeen	Granite, general	Cottons and general.
Belfast	Potatoes, flax, cordage, linen goods, paper making materials.	Cottons, ironwork, machinery, motor cars.
Dublin	Cattle, sheep, pigs, stout, biscuits, bacon.	General, motor cars.
Dundee	Jute goods, linoleum and general.	Cottons and general.
Glasgow and Greenock .	Oatmeal, sugar, iron and ironwork, general.	Cotton goods, chemicals, general.
Leith	General goods	Cottons, machinery and general.
London	General (chiefly foods), cement, cables, tea, and Australian tran- ship goods.	Manchester goods, iron wire.
Plymouth	Burnt Ore.....	.....
Swansea.....	Oils and motor spirit.....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

FOREIGN.

PORT.	IMPORTS.	EXPORTS.
Adelaide	Wheat, wool, meats, copper bars.	Machinery, Manchester goods, wire.
Alexandria	Cotton, cotton seed, eggs, oranges, onions.	Machinery, paints, hard- ware, cotton goods, coal.
Alexandretta .....	.....	Cottons, hardware, etc.
Almeria	Oranges, grapes.....	.....
Amsterdam	Margarine, bacon, farina, condensed milk and general.	Cotton and woollen goods, machinery.
Antwerp	Steel, cement, glassware and general.	Chemicals, cotton, linen and woollen goods.
Auckland.....	Frozen meat.....	Machinery, Manchester goods, wire, salt.
Bahia Blanca and other River Plate Ports.	Grain .....	.....
Baltic Ports	Paper, pulp, timber.....	Cottons, machinery, coal and coke.
Baltimore	Grain, apples, starch, steel, etc., hardwoods.	Manchester goods, ore.
Benisaf (Algeria).....	Iron ore .....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Bergen	Canned fish.....	Manchester goods.
Beyrout .....	.....	Cotton goods, machinery.
Black Sea Ports	Grain, oil, timber.....	Cottons, hardware.
Bluff, N.Z.	Frozen meat, grain, cheese	Manchester goods, machinery, wire.
Bombay.....	Ore, wheat	Manchester goods, machinery, chemicals, paints.
Bordeaux.....	Brandy, wines, resin, aloxite ore.	Coal, cotton and woollen goods, machinery, pitch.
Boston, U.S.A.	Bacon, lard, canned meats, cotton, grain, leather, apples and general.	Paper stock, machinery, Egyptian cotton.
Botwoodville	Paper and pulp .....	.....
Bremen.....	General goods, timber.....	Manchester goods, cotton waste.
Brisbane	Frozen meat, canned meats, grain, wool.	Manchester goods, machinery, wire.
Brunswick, Ga.	Cotton.....	.....
Buenos Aires	Grain, meats .....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER
TOGETHER WITH THE CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Burriana	Oranges, onions .....	.....
Calcutta.....	Tea, coconut oil, hemp....	Manchester goods, machinery, salt.
Cartagena.....	Oranges, onions .....	.....
Castellon.....	Oranges, onions .....	.....
Charlestown	Cotton, hardwoods.....	.....
Constantinople.....	Grain, dried fruits	Cotton goods, machinery, hardware.
Cienfuegos	Molasses .....	.....
Colombo	Tea, desiccated coconut.	Manchester goods.
Copenhagen.....	Farina and general	Manchester goods, machinery, coke.
Dantzig	Timber, barrel staves.....	Cotton waste, machinery.
Drammen	Paper and pulp .....	.....
Drontheim	Paper, timber.....	.....
Dunedin	Frozen meats	Manchester goods, machinery, salt, ironwork.

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Dunkirk.....	General goods	Coal tar products, cotton goods, machinery.
Finland	Pulp-wood.....	.....
Freemantle.....	Grain	Manchester goods, wire.
Galveston	Cotton, grain, timber, phosphate rock.	Creosote oil.
Geelong	Wheat	Manchester goods.
Gefle	Timber .....	.....
Genoa	Lemon peel, etc., olive oil, essences.	Pitch, cotton goods.
Ghent.....	Steel, cement and general	Chemicals, cotton and woollen goods, machinery.
Göthenburg	Paper, pulp, timber	Chemicals, cotton goods, machinery, coke.
Halifax, N.S.....	Grain, apples, timber and livestock	Manchester goods, salt.
Halmstad	Timber .....	.....
Hamburg	Sugar, general, timber.....	Cotton waste, cotton goods and general.

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Helsingfors	Timber, paper, pulp .....	.....
Hobart	Apples, pears	Manchester goods, machinery.
Huelva	Iron ore .....	.....
Jacksonville	Cotton, hardwoods.....	.....
Jaffa	Oranges.....	Cotton goods.
Kotka	Timber, paper, pulp .....	.....
Karachi.....	Wheat .....	.....
Leghorn	Fruit, marble	Cotton and woollen goods.
Levant Ports.....	Grain, dried fruits	Cottons, hardware.
Lyttleton	Frozen meat.....	Manchester goods, machinery.
Malaga	Oranges.....	.....
Malta.....	.....	Machinery and cotton goods and potatoes.
Melbourne	Wheat, frozen meats, wool	Machinery, wire, chemi- cals, cotton and woollen goods.
Melilla	Iron Ore.....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Messina.....	Lemons, peel, plumbago..	.....
Mobile	Timber and cotton.....	.....
Montreal	Grain, timber, cheese, bacon, lard, flour and general and livestock.	Manchester goods, machinery, earthen- ware, paints, salt.
Nantes .....	.....	Machinery, chemicals.
Naples.....	Lemons, peel in brine, marble.	Manchester goods.
Narvik	Ore .....	.....
New Brunswick	Cotton.....	.....
New Orleans	Cotton, oil, timber, grain.	Creosote oil.
New York.....	Oil, grain, bacon, flour, c o t t o n , tobacco, motors and parts.	Cotton, linen and woollen goods, paper stock.
Norfolk, Va.	Cotton, tobacco .....	.....
Oslo	Timber, paper, pulp.....	Manchester goods, machinery, coke.
Pacific Coast Ports.....	Grain, timber, canned goods.	.....
Pensacola	Timber, cotton .....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Philadelphia	Flour, bacon, tobacco, motors and parts, cotton.	Cotton, linen and woollen goods, chemicals.
Pomaron.....	Iron ore .....	.....
Port Arthur (Texas) ...	Oil and motor spirit.....	.....
Port Chalmers	Frozen meat.....	Manchester goods, machinery.
Portland (Oregon).....	Canned goods, timber....	.....
Puerto Mexico	Asphaltum .....	.....
Quebec	Timber, grain	Manchester goods, salt.
Reval	Timber .....	.....
Riga	Timber	Cotton, machinery.
Rosario	Grain .....	.....
Rotterdam	Sugar, strawboards, general.	Manchester goods, woollen goods, cotton yarn and waste.
Rouen	Sand, sugar, cotton waste.	Machinery, cotton and woollen goods, pitch.
San Francisco.....	Canned and dried goods, grain, wood.	.....
Savannah	Cotton.....	.....

LIST OF PORTS TRADING REGULARLY WITH THE PORT OF MANCHESTER,
TOGETHER WITH CHIEF IMPORTS FROM, AND EXPORTS
TO, SUCH PORTS.—*Continued.*

PORT.	IMPORTS.	EXPORTS.
Seattle.....	Canned goods, timber.. ..	.....
Seville	Bitter oranges, lead.....	.....
Skien.....	Paper and pulp	Coke.
St. John, N.B.	Timber and livestock.....	Manchester goods, machinery, salt, ore.
St. Nazaire .....	.....	Pitch.
Stockholm	Paper, pulp .....	.....
Sydney, N.S.W.	Frozen and canned meats, wool, copper bars, pig lead.	Manchester goods, wire, machinery.
Syrian Coast Ports	Seeds for oil crushing.....	Manchester goods.
Tampico	Oil .....	.....
Treport	Flints, cotton waste and general.	Machinery, cotton and woollen goods.
Tripoli (Syria).....	.....	Machinery, cotton goods.
Tunis .....	.....	Machinery, cotton goods.
Valencia	Oranges, onions, melons, rice, pomegranates, tomatoes.	.....
Vancouver.....	Canned goods, grain, lead	.....
Wellington	Frozen meats, cheese, wool.	Manchester goods, machinery, salt.

REPORT ON THE ADMINISTRATION OF THE CANAL
BOATS ACTS, 1877-84.

For the Year ended 31st December, 1924.

(1) Two Inspectors have been appointed by the Authority to carry out the provisions of the Canal Boats Acts, viz. :—

HENRY ATKINSON, for Section A (Manchester to Latchford);
WALTER RICHMOND, for Section B (Latchford to Eastham).

Both Inspectors have the Certificate of the Royal Sanitary Institute.

No Inspector is required to devote his whole time to the duties of inspections under the Canal Boats Acts. Their primary duty is the supervision of shipping registered under the Merchant Shipping Acts, and they are only required to inspect canal boats at such times as they can spare from their other duties.

For the purposes of administration, the Port is divided into two sections, viz. :—from Eastham to Latchford, including Widnes and Warrington, with headquarters at Runcorn, and from Latchford to Manchester, with headquarters at Manchester. Each section is under the control of an Inspector, who is directly and solely responsible to the Medical Officer of Health for the proper supervision of his district.

A motor boat is in daily use on the lower reaches of the canal, and this enables the Inspector to keep under constant supervision canal boats using the Port at various points.

(2) During the year there has been an increase of 43 inspections compared with those of the previous year. On the Runcorn section of the canal 805 inspections were made, showing an increase of 32 from the previous year's number. On the Manchester section 19 inspections were made, against 8 during the previous year, an increase of 11.

The number of boats inspected, together with those discovered infringing the terms of the Canal Boats Acts, since the Authority undertook this duty, are as follows :—

Year.	Number Inspected.	Number Defective.	Percentage.
1903	191	77	40.30
1904	230	105	45.65
1905	209	132	63.15
1906	115	73	63.46
1907	84	55	75.47
1908	150	67	44.66
1909	257	101	39.29
1910	230	87	37.82
1911	307	127	41.36
1912	254	89	35.03
1913	432	159	37.03
1914	382	122	31.41
1915	311	79	25.40
1916	409	112	27.38
1917	596	166	27.85
1918	729	203	27.84
1919	493	170	34.48
1920	478	129	26.98
1921	895	180	20.11
1922	979	241	24.82
1923	781	211	27.01
1924	824	219	26.57

The proportion of defective boats to the total number inspected during the year amounted to 26.57 per cent., being 0.44 per cent. lower than in 1923.

(3) The following is a summary of the insanitary conditions and contraventions of the Acts found during the year :—

(a) REGISTRATION.

Not registered.....	4
Registration incorrect	44

(b) NOTIFICATION OF CHANGE OF MASTER..... 0

(c) CERTIFICATES.

Registration certificate absent	23
„ „ dilapidated.....	3

(d) MARKING.	
No marks	14
Marking indistinct or incorrect.....	27
(e) OVERCROWDING	57
(f) SEPARATION OF SEXES (want of)	33
(g) CLEANLINESS AND REPAIRS.	
Cleansing of cabins required	6
Cabins, etc., dilapidated and repairs required	44
Miscellaneous leakages into cabins	130
Bulkheads defective allowing communication with holds	20
(h) VENTILATION AND LIGHTING.	
Ventilation inefficient and ventilators defective ...	6
Insufficient lighting	1
(i) PAINTING.	
Cabins, lockers, berths, etc., requiring painting ...	50
(j) PROVISION OF WATER CASK.	
No water vessel or vessel not of sufficient capacity.	0
Water casks decayed and water vessels requiring repairs.....	29
(k) REMOVAL OF BILGE WATER.	
Bilge Pumps absent	2
,, ,, defective.....	1
Bilges requiring cleansing.....	0
(l) NOTIFICATION OF INFECTIOUS DISEASE.....	0
(m) ADMITTANCE OF INSPECTOR	0
	<hr/>
Total	494
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The proportion of infringements per boat works out at 1.66.

(4) The Authority issued a batch of summonses against the Chester and Liverpool Lighterage and Warehousing Co. Ltd., and the cases were heard at Ellesmere Port Police Court on 3rd December.

The offences had taken place on fourteen canal boats, and it was owing to the ignoring of Notices and letters by this firm that the Authority decided to prosecute. In fourteen cases the summonses

were issued under Section 1, 3a, of the Regulations, which provides for the living quarters observing a certain standard of sanitation. The complaints were caused through the cabins being leaky, the woodwork decayed, food lockers being broken and leaky, a broken stove pipe and a defective bulkhead. With respect to all these the summonses were dismissed on the ground that Regulation 1, 3a, referred to conditions which had to be complied with as a condition of registration only, and that as a consequence the Manchester Port Sanitary Authority had no power to require the observance of the conditions after registration had been effected. The other ten summonses had relation to the renewal of paint under Regulation IV., 9, and to obliteration of registration marks under Section 3 of the Canal Boats Act, 1877, and in all these convictions were obtained.

The net result of this string of prosecutions appears to be that the owners of canal boats, whilst being compelled to observe certain matters of minor moment, can ignore any Notices and requests to keep the living quarters in a habitable condition.

(5) The usual steps have been taken to secure compliance with the Acts. In all cases complaint notes have been promptly served upon the owners, and if not attended to at the end of the prescribed number of days, a postcard asking for return of the certificate has been duly forwarded.

(6) Three cases of Infectious Disease have been notified on canal boats during the year, namely, one of pulmonary tuberculosis, one of chicken-pox, and one of pneumonia.

(7) No boats have been detained for cleansing or disinfection.

(8) and (9) The Authority is not a Registration Authority.

RETURN OF ARRIVALS AT AND SAILINGS FROM THE PORT OF MANCHESTER IN THE
YEAR ENDED 31ST DECEMBER, 1924.

ARRIVALS.	Means of propulsion	Manchester		Runcorn		Ellesmere Port		Warrington		Totals	
		No. of Vessels	Tonnage	No. of Vessels	Tonnage	No. of Vessels	Tonnage	No. of Vessels	Tonnage	No. of Vessels	Tonnage
From Foreign Parts {	Sail	1	121	12	1,046	—	—	—	—	13	1,167
	Motor Steam	8 1,757	23,693 2,598,820	11 142	1,484 40,007	6 128	22,225 175,406	—	30,700	25 2,092	47,402 2,844,933
From Coastwise Ports {	Sail	1	64	158	16,121	3	230	—	—	162	16,415
	Motor Steam	21 780	6,743 272,582	82 730	5,852 96,095	11 561	1,954 125,052	—	1,959	114 2,084	14,549 495,688
TOTAL ARRIVALS ...		2,568	2,902,023	1,135	160,605	709	324,867	78	32,659	4,490	3,420,154
SAILINGS.	To Foreign Ports {	Sail	1	5	548	—	—	—	—	6	669
		Motor Steam	8 1,628	6 99	760 38,298	3 54	5,151 86,666	—	12,748	17 1,855	33,799 2,403,383
To Coastwise Ports {	Sail	1	378	164	16,505	3	230	—	—	168	17,113
	Motor Steam	23 987	7,512 663,155	87 760	6,425 113,035	7 577	1,194 195,241	—	3,134	117 2,330	15,131 974,565
TOTAL SAILINGS ...		2,646	2,964,725	1,121	175,571	644	288,482	80	15,882	4,493	3,444,660

The above information has been kindly supplied by H.M. Collector of Customs for the Port.

